	FIGURE 1A							
Protein	Organism /	EC#	GenBank / GenPept	SwissProt PDB / 3D				
Af1g08280	Arabidopsis thallana	n.d.	AC011438 AAF18241.1 BT004583 AAO42829.1	Q9SGD2				
At1g08660/F22O13.14	Arabidopsis	n.d.	NG 003070 NP 172305. AC003981 AAF99778.1	Q8VZJ0				
	thaliana		AY064135 AAL36042.1 AY124807 AAM70516.1 NC_003070 NP_172342.1	Q9FRR9				
PROTECTION AND PROTECTION AND AND AND AND AND AND AND AND AND AN	en e generale e electrones de l'appendie destact	TERRITARY OF CO.	NM_180609 NP_850940.1					
At3g48820/T21J18 .90	Arabidopsis * thaliana	nd:	AY080589,AAL85966:1 ,,AY133816,AAM91750.1 AL132963 CAB87910.1					
			NM_114741 NP_190451.1					
α-2,3-sialyltransferase (ST3GAL-IV)	Bos taurus	n.d.	AJ584673 CAE48298.1					
α-2,3-sialyttransferase (St3Gal-V)	Bos taurus	n.d.	AJ585768 CAE51392.1					
α-2,6-sialyltransferase	Bos taurus	n.d.	AJ620651 CAF05850.1	Selection and the selection of the selec				
(Siat7b) x-2,8-sialyltransferase	Bos taurus	2.4.99.8	AJ699418 CAG27880.1					
(SIAT8A) α-2,8-sialyltransferase	Bos taurus		AJ699421 CAG27883.1					
(Siat8D)	•	n.d.		Markey May 1 to 44 and 12 to 18 and 2 to 18 and 2 and				
α-2,8-sialyltransferase ST8Siα-III (Slat8C).	Bos taurus	n.d.	AJ704563 CAG28696.1					
CMP α-2,6-	Bos taurus	2.4.99.1	Y15111 CAA75385.1	O18974				
sialyltransferase (ST6Gal			NM_177517 NP_803483.1					
sialyltransferase 8 (fragment)	Bos taurus 💯 🖈	n.d.	AF450088 AAL47018.1	Q8WN13.				
sialyltransferase ST3Gal-	Bos taurus	n.d.	AJ748841 CAG44450.1	· 公司的政治公司,2015年的第一条任何中央的国				
II (Siat4B) sialyltransferase ST3Gal-	⊬Bos taurūs ″	erind.	AJ748842 CAG44451:4					
(II (Siat6) sialyltransferase ST3Gal-	Bos taurus	n.d.	AJ748843 CAG44452.1					
VI (Šlat10)	en egyen a stephen og stephen gettigggegen, og stephen en er			ng en vivil a la samma e se en en en en entre de la section en en entre en				
ST3Gal L. St6GalNAc-VI	Bos taurus Bos taurus	% n.d.* n.d.	AJ305086 CAC24698 1 AJ620949 CAF06586.1	© Q9BEG4				
CDS4	;Branchiöstoma 🦢	n.d.	AF391289 AAM18873.1	Q8T771				
polysialyltransferase	floridae Cercopithecus	2.4.99	AF210729 AAF17105.1	Q9TT09				
(PST) (fragment) ST8Sla IV	aethiops	•						
polysialyltransferase		12.4.99	AF210318 AAF17104.1	`- @9TT10 - (\$ ₹ \				
(STX) (fragment) ST8Sia II	aethlops							
α-2,3-slalyltransferase ST3Gal I (Siat4)	Ciona intestinalis	n.d.	AJ626815 CAF25173.1					
©-2,3-slalyltransferase; ST3Gal I (Slat4)	Clona savignyl	n.d.	AJ626814 CAF25172.1					
α-2,8- polysialyltransferase	Cricetulus griseus	2.4.99	- AAE28634 Z46801 CAA86822.1	Q64690				
ST8Sia IV	א (מידייני מידיים א מידי או מידי מידי מידי מידי מידי או מידי או מידי מידי מידי מידי מידי מידי מידי מיד							
Gal β-1,3/4-GlcNAc α- 2,3-sialyltransferase	Cricetulus griseus	n.a.	AY266675 AAP22942.1	Q80WL0				
St3Gal I			AV26676 A A D22042 4	08004/0				
Gal β-1,3/4-GlcNAc α- 2,3-sialyltransferase	Cricetulus griseus	n.d.	AY266676 AAP22943.1	Q80WK9				
St3Gal II (fragment)			A 1709740 CAH04047 4	on posminental de la companya de la Companya de la companya de la compa				
α-2,3-slalyltransferase ST3Gal I (Siat4)	Danio rerio	n.d.	AJ783740 CAH04017.1					
α-2,3-sialyltransferase ST3Gal II (Siat5)	Danio rerio	n.d.	AJ783741 CAH04018.1	,				
α-2,3-sialyltransferase	Danio rerio	n.d.	AJ626821 CAF25179.1					
ST3Gal III (Siat6) α-2,3-sialyltransferase	Danio rerio	n.d.	AJ744809 CAG32845.1					
ST3Gal IV (Siat4c)	,							

FIGURE 1B

	FIGURE 1B							
Protein	Organism	*EC#	GenBank / GenPept	SwissProt PDB				
α-2,3-sialyltransferase	Danio rerio	n.d.	AJ783742 CAH04019.					
ST3Gal V-r (Siat5-related)			Militer at 1971					
α-2,6-sialyltransferase ST6Gal I (Siat1)	Danio rerio	n.d.	AJ744801 CAG32837.					
α-2,6-sialyltransferase	Danio rerio	ind:	AJ634459 CAG25680.					
ST6GalNAc II (Slat7B)								
α-2,6-sialyltransferase ST6GalNAc V (Siat7E)	Danio rerio	n.d.	AJ646874 CAG26703.					
(fragment)			•					
α-2,6-sialyltransferase	Danio rerio	n.d.	AJ646883 CAG26712.					
ST6GalNAc VI (Slat7F) (fragment)		MAGE		151540001255				
α-2,8-sialyltransferase	Danio rerio	n.d.	AJ715535 CAG29374.	l de la companya de La companya de la companya de l				
ST8Sia I (Siat 8A)	-		,					
(fragment) α-2,8-sialyttransferase	Danio rerio	Control of the Contro	AJ715543 CAG29382					
ST8Sia III (Siat 8C)	Dalio lello	(j	AUT (0045 CAG28362.					
(fragment)				3,400,00,00				
α-2,8-sialyltransferase ST8Sia IV (Siat 8D)	Danio rerio	n.d.	AJ715545 CAG29384 .1					
(fragment)			,					
α-2,8-sialyltransferase	Danio rerió 👯 📜 .	n ∂ \d	AJ715546 CAG29385					
ST8Sia V. (Siat 8E) (fragment)		411						
α-2,8-sialyltransferase	Danio rerio	n.d.	AJ715551 CAG29390.1					
ST8Sia VI (Slat 8F)			•	•				
(fragment)	Danjo rerio 🚟 🥕	Y n.d.	AJ627627 CAF29495.1					
β-galactosamide α²2,6- sialytransferase II	Danio reno	ili.u.	A002/02/ CAF29493.1					
(SToGalul)	4							
N-glycan α-2,8-	Danio rerio	n.d.	BC050483 AAH50483.1					
sialyltransferase		1	AY055462 AAL17875.1 .NM_153662 NP_705948					
ST3Gal III-related (slat6r)	Danio rerio	h.d.	BC053179 AAH53179:1	Q7T3B9				
	Name of the Control o		AJ626820 CAF25178.1					
St3Gal-V	Danio rerio	n.d.	NM 200355 NP 956649. AJ619960 CAF04061.1					
st6GalNAc-VI	Danio rerio 🛼 🦪	n.d.	BC060932 AAH60932.1					
α-2,6-sialyltransferase	Drosophila	2.4.99.1	AJ620947 CAF06584.1 AE003465 AAF47256.1	Q9GU23				
(CG4871) ST6Gal I	melanogaster	2.4.33.1	AF218237 AAG13185.1					
		•	AF397532 AAK92126.1					
			. AE003465 AAM70791.1 . NM_079129 NP_523853					
		ı	NM_166684 NP_726474.					
α-2,3-sialyltransferase	Gallus gállus 🥻	in.d.	AJ585767 CAE51391:1					
(ST3Gal-VI) α-2,3-sialyltransferase	Gallus gallus	2.4.99.4	AJ627204 CAF25503.1 X80503 CAA56666.1	Q11200				
ST3Gal I			NM_205217 NP_990548.	1				
α-2,3-sialyltransferase ST3Gal IV (fragment)	Gallus gallus	2.4.99	AF035250 AAC14163.1	073724.				
α-2,3-sialytransferase	Gallus gallus	n.d.	AJ585761 CAE51385.2					
(ST3GAL-II)	_			- Con Maria principal consumeror and an arrange and an arrange and arrange arrange and arrange arrange and arrange arr				
α-2,6-sialyltransferase (Siat7b)	Gallus gallus	n.d.	AJ620653 CAF05852.1					
α-2,6-sialyltransferase	Gallus gallus	2.4.99.1	X75558 CAA53235.1	Q92182				
ST6Gal I			NM_205241 NP_990572.	1				
α-2,6-sialyltransferase- ST6GalNAc I	Gallus gallus	2.4.99.3	- AAE68028.1	Q92183				
STOGAINACT			- AAE68029.1 X74946 CAA52902. 1					
Land the second		والسندجين وداميم والمستجهوري	NM_205240 NP_990571.					
α-2,6-sialyltransferase ST6GalNAc II	Gallus gallus	2.4.99	X77775 AAE68030.1 NM 205233 CAA54813.1	Q92184				
		r	NP_990564.					
Ø-2,6-sialyltransferase	Gallus gallus	n.d.	AJ634455 CAG25677.1					
ST6GalNAc III (SIAT7C)				ESTELLE PROPERTY OF THE PROPER				

FIGURE 1C							
Protein	Organism	EC#	GenBank / GenPept SwissProt / 3D				
(fragment) α-2,6-slalyltransferase ST6GalNAc V (SIAT7E) (fragment)	Gallus gallus	n.d.					
α-2,8-sialyltransferase (GD3 Synthase) ST8Sia I α-2,8-sialyltransferase	Gallus gallus	2.4.99 n.d.	U73176 AAC28888 13 P79783				
(SIAT8B) ©:2,8-sialyltransferase (SIAT8C)	Gallus gallus	n.d.∵	AJ699420 CAG27882.1				
α-2,8-sialyltransferase (SIAT8F) α-2,8-syalyltransferase	Gallus gallus Gallus gallus	n.d.	AJ699424 CAG27886.1				
ST8Siα-V (SIAT8C) β-galactosamide α-2,6- sialyltransferase II	Gallus gallus	n.d.	AJ627629 CAF29497.1				
(ST6Gal II) GM3.synthase (SIAT9) polysialyltransferase	Gallus gallus Gallus gallus	2.4.99.9 2.4.99	AY515255 AAS83519:1 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				
ST8Sia IV 0-2,3-sialyltransferase ST3Gal I	Homo saplens	72.4.99.4	L29555 AAA36612.1 Q11201 AF059321 AAC17874.1 Q60677 AC17874.1 Q9UN51 A				
			AF155238 AAD39238 1 AF186191 AAG29876 1 BC018357/AAH18357.1				
α-2,3-sialyltransferase	≯.⊯ Homo sapiens		NM_003033 NP_003024:1 NM_173344'NP≥775479.1 U63090 AAB40389.1 Q16842				
ST3Gal II	TOP STREET, TOP TO THE STREET,		BC036777 AAH36777.1 O00654 X96667 CAA65447.1 NM_006927 NP_008858.1				
α-2;3-sialyltransferase-1 ST3Gal III (SiaT6):	Homo saplens	2.4.99.6	BC050380 AAH50380.1 Q86UR6 44 AF425851 AAO13859.1 Q86UR7				
			AF425852 AAO13860 11 Q86UR8 AF425853 AAO13861 1 Q86UR9 AF425854 AAO13862 1 Q86US0, 1 AF425855 AAO13863 1 Q86US1				
			AF425856 AAO13864.1 Q86US2 AF425857 AAO13865.1 Q8IX43 AF425858 AAO13866.1 Q8IX44				
			AF425859 AAO13867.1 Q8 X45 AF425860 AAO13868.1 Q8 X46 AF425861 AAO13869.1 Q8 X47				
			AF425862 AAO13870.1 Q8IX48 AF425863 AAO13871.1 Q8IX49 AF425864 AAO13872.1 Q8IX50				
			AF425865 AAO13873.1 Q8IX51 AF425866 AAO13874.1 Q8IX52 AF425867 AAO13875.1 Q8IX53 AY167992 AAO38806.1 Q8IX54				
			AY167992AAO38806.1 Q8IX54 AY167993AAO38807.1 Q8IX55 AY167994AAO38808.1 Q8IX56 AY167995AAO38809.1 Q8IX57				
			AY167996 AAO38810.1 Q8IX58 AY167997 AAO38811.1 AY167998 AAO38812.1				
			NM_006279 NP_006270.1 NM_174964 NP_777624.1 NM_174965 NP_777625.1				
			NM_174966 NP_777626.1 NM_174967 NP_777627.1 NM_174969 NP_777629.1				
			NM_174970 NP_777630.1 NM_174972 NP_777632.1				

FIGURE 1D								
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB				
α-2,3-sialyltransferase	Homo sapiens	2.4.99	L23767 AAA16460.1	Q11206				
ST3Gal IV			AF035249 AAC14162.1	060497				
			BC010645 AAH10645.1 AY040826 AAK93790.1	Q96QQ9 Q8N6A6				
			AF516602 AAM66431.1	Q8N6A7				
			AF516603 AAM66432.1	Q8NFD3				
			AF516604 AAM66433.1	Q8NFG7				
			AF525084 AAM81378.1 X74570 CAA52662.1					
			CR456858 CAG33139.1					
α-2,3-sialyltransferase	∉Homo sapiens		NM_006278 NP_006269.1 - AF119391 AAD3913 1.1	' Q9Y274				
ST3Gal VI	unomo sapiens	2.4.99.4	BC023312 AAH23312.1	daiz14				
			AB022918 BAA77609:1					
			AX877828 CAE89895.1)					
	in the latest the same		∴AX886023 CAF00161.1 NM_0061001NP_006091.1					
α-2,6-sialyltransferase	Homo sapiens	n.d.	BC008680 AAH08680.1	Q86Y44				
(ST6Gal II ; KIAA1877)		_	AB058780 BAB47506.1	Q8IUG7				
			AB059555 BAC24793.1 AJ512141 CAD54408.1	Q96HE4 Q96JF0				
			AX795193 CAE48260.1	40000				
			AX795193 CAE48261.1					
α-2,6-sialyltransferase	Homo sapiens	Send	NM_032528 NP_115917.1 BC059363 AAH59363.1	Q8N259				
(ST6GALNACIII)			AY358540 AAQ88904.1	Q8NDV1				
			AK091215 BAC03611.1 AJ507291 CAD45371.1					
			NM 152996 NP 694541.1					
α-2,6-sialyltransferase	Homo sapiens	n.d.	BC001201 AAH01201.1	Q9BVH7				
(ST6GalNAc V)			AK056241 BAB71127.1					
	•		AL035409 CAB72344.1 AJ507292 CAD45372.1					
STATE AND THE TOTAL AND THE STATE OF THE STA	inter elle landiter en te fall i selle tistat. Som del landiterior	COMMENTS OF PROPERTY OF THE PARTY OF THE PAR	NM_030965 NP_112227.1					
G-2,6-slalyltransferase (SThM) ST6GalNAc II	Homo saplens	2.4.99	U14550 AAA52228:1	09UJ37 012971				
(311IV) 3 OGAIVAC III 7 320			BC040455 AAH40455:1 AJ251053 CAB61434.1	GI29/1				
	ina i iii		NM: 006456 NP: 006447:1					
α-2,6-sialyltransferase ST6Gal I	Homo sapiens	2.4.99.1	BC031476 AAH31476.1 BC040009 AAH40009.1	P15907				
· · ·			A17362 CAA01327.1					
			A23699 CAA01686.1					
			X17247 CAA35111.1 X54363 CAA38246.1					
			X62822 CAA44634.1					
			NM_003032 NP_003023.1					
α-2,6-slalyltransferase	Homo sapiens		NM_173216 NP_775323.1 BC022462 AAH22462.1	Q8TBJ6				
ST6GalNAc I			AY096001 AAM22800.1	Q9NSC7				
		我一套在 深入	AY358918 AAQ89277.1	Q9NXQ7				
			AK000113 BAA90953.1 Y11339 CAA72179:2					
			NM_018414 NP_060884.1					
α-2,8-	Homo sapiens	2.4.99	L41680 AAC41775.1	Q8N1F4				
polysialyltransferase ST8Sia IV			BC027866 AAH27866.1 BC053657 AAH53657.1	Q92187 Q92693				
	and the first make the desired adding the fig. I have a		NM_005668 NP_005659.1					
α-2,8-sialyltransferase (GD3 synthase) ST8Sia I	Homo saplens	2.4.99.8	L32867 AAA62366.1 L43494 AAC37586.1	Q86X71 Q92185				
Coo synthasty of toola i			BC046158 AAH46158.1	Q92165 Q93064				
			-AAQ53140.1					
		第三 澳口	AY569975 AAS75783.1 D26360 BAA05391.1					
			X77922 CAA54891.1					
			NM 003034 NP 003025:1					
α-2,8-sialyltransferase	Homo saplens	2.4.99	L29556 AAA36613.1	Q92186				

	FIGURE	E 1E		
Protein	Organism	EC#	GenBank / GenPept	SwissProt PD
ST8Sia II			U82762 AAB51242.1	Q92470
•			U33551 AAC24458.1 BC069584 AAH69584.1	Q92746
	The state of the s		NM_006011 NP_006002.	
α-2,8-slalyltransferase ST8Sia III	Homo sapiens	2.4.99	AF004668 AAB87642.1 AF003092 AAC15901.2	
			NM_015879 NP_056963	
α-2,8-sialyltransferase ST8Sia V	Homo sapiens	2.4.99	U91641 AAC51727.1	O15466
		•	CR457037 CAG33318.1 NM_013305 NP_037437.	f
ENSP00000020221 (fragment)		n.d.	AC023295	
magnient)				
				4 7 4 40 7
lactosylceramide α-2,3-	Homo sapiens	2.4.99.9	AF105026 AAD14634.1	Q9UNP4
ialyltransferase (ST3Gal /)	·		AF119415 AAF66146.1	O94902
•			BC065936 AAH65936.1 AY152815 AAO16866.1	,
	,		AAP65066 AAP65066.1	
			AY359105 AAQ89463.1	
		•	AB018356 BAA33950.1 AX876536 CAE89320.1	
n sentutul energeren error beterr	een on the second of the second of	ag sitting general representation of the	NM_003896 NP_003887.2	
V-acetylgalactosaminide	Homo sapiens	2.4.99:-	BC006564 AAH06564.1 BC007802 AAH07802.1	Q969X2 (1) Q9H8A2
ST6GalNAc VI)			BC016299 AAH16299.1	Q9ULB8
			AY358672 AAQ89035.1	
			AB035173 BAA87035.1 AK023900 BAB14715.1	
			AJ507293 CAD45373.1	
			AX880950 CAE91145.1 CR457318 CAG33599.1	
			NM_013443 NP_038471.2	
V-acetylgalactosaminide -2,6-sialyltransferase IV	Homo sapiens	2.4.99	AF127142 AAF00102.1	Q9H4F1
ST6GalNAc IV)	•		BC036705 AAH36705.1 - AAP63349.1	Q9NWU6 Q9UKU1
			AB035172 BAA87034.1	Q9ULB9
	• .		AK000600 BAA91281.1	Q9Y3G3
	•		Y17461 CAB44354.1 AJ271734 CAC07404.1	Q9Y3G4
	•		AX061620 CAC24981.1	
			AX068265 CAC27250.1 AX969252 CAF14360.1	
			NM_014403 NP_055218.3	
T8SIA-VI (fragment)	Homo saplens	n.d.	NM_175039 NP_778204.1 AJ621583 CAF21722.1	इत्यास्य काराकासम्बद्धाः
			XM_291725 XP_291725.2	
nnamed protein product	Homo sapiens	n.d.	AK021929 BAB13940.1	Q9HAA9
			AV004000 04 F040F0 4	
al β-1,3/4-GlcNAc α	Mésocricetus	2.4.99.6	AX881696 CAE91353.1 AJ245699 CAB53394.1	Q9QXF6

FIGURE 1E

FIGURE 1F							
Protein		Organism	EC#	GenBank / GenPept	SwissProt PDB / 3D		
Gal β-1,3/4-GlcNAc α-		Mesocricetus	2.4.99.6	AJ245700 CAB53395.1	Q9QXF5		
2,3-sialyltransferase		auratus			4-4		
(ST3Gal IV)	. Projekt tozateren	The of the Committee of	e National for the or the order	- 1875 TERROTTO II. ETILENTE NOV. 10 denne 1 denne 1 denne 1 den	A STANDARD AND AND AND AND AND AND AND AND AND AN		
GD3 synthase (fragment			n.d.	AF141657 AAD33879.1	Q9WUL1		
ST8Sla I polysialyltransferase	The Chillennian	auratus Mesocricetus	2.4.99	AJ245701 CAB53396.1	Q9QXF4		
(ST8Sia IV)		auratus	2.4.00.		GSGAI 7		
α-2,3-sialyltransférase	St3gal1	Mus musculus	2.4.99.4		P54751		
ST3Gal I	801			AK031344BAC27356.1	Q11202		
				AK078469 BAC37290.1 X73523 CAA51919.1	Q9JL30		
				NM_009177 NP_033203.1			
α-2,3-sialyltransferase ST3Gal II	St3gal2	Mus musculus	2.4.99.4	BC015264 AAH15264.1	Q11204		
31304111				BC066064 AAH66064.1 AK034554 BAC28752.1	Q8BPL0 Q8BSA0		
				AK034863 BAC28859.1	Q8BSE9		
			•	AK053827 BAC35543.1	Q91WH6		
				X76989 CAA54294.1			
•		•		NM_009179NP_033205.1 NM_178048NP_835149.1			
α-2/3-sialyltransferase	Ç St3ga 3 ,	Mūs musculus 🤾	2.4.99:-	BC006710 AAH06710.1			
ST3Gal III.				AK005053 BAB23779:1			
				AK013016 BAB28598. 1 X84234 CAA59013. 1	Q9CZ48 Q9DBB6 Q9DBB6		
				VM 009176 NP 033202.2	,03000		
α-2,3-sialyltransferase	St3gal4	Mus musculus	2.4.99.4	BC011121 AAH11121.1	P97354		
ST3Gal IV				BC050773 AAH50773.1	Q61325		
				D28941 BAA06068. 1 AK008543 BAB25732. 1	Q91Y74 Q921R5		
		•		AB061305 BAB47508. 1	Q9CVE8		
			_	X95809 CAA65076.1			
α-2,3-sialyltransferase	SPage	Mue mileculie 3	2.4.99.4	NM_009178 NP_033204.2 AF1:19390 AAD39130::1	Q80UR7		
ST3Gal VI		100		BC052338 AAH52338.1	Q8BLV1		
	4.			AB063326 BAB79494.1	Q8VIB3		
		PULL STORY		AK033562 BAC28360.1	Q9WVG2		
				AK041173 BAC30851.1 NM 018784 NP 061254			
α-2,6-sialyltransferase	St6galnac2	Mus musculus	2.4.99 N	NM_0091806677963	P70277		
ST6GalNAc II		•		BC010208 AAH10208.1	Q9DC24		
•	•			AB027198 BAB00637.1 AK004613 BAB23410.1	Q9JJM5		
				X93999 CAA63821.1			
			_	X94000 CAA63822.1	•		
0-2,6-sialyltransferase	St6gal1	Mus musculus	۱ .2.4 ا 2.4،99.1	M_009180 NP_033206.2 AAE68031.1	Q64685		
ST6Gal I	Cioga,,	mus musculus	2.7.33	BC027833 AAH27833.1	Q8BM62		
				D16106 BAA03680.1	Q8K1L1		
	·马士为夏季?			AK034768 BAC28828.1			
				AK084124 BAC39120.1 IM_145933 NP_666045.1			
α-2,6-slalyltransferase	St6gal2	Mus musculus	n.d.	AK082566 BAC38534.1	Q8BUU4		
ST6Gal II				AB095093 BAC87752.1			
				AK129462 BAC98272.1 IM_172829 NP_766417.1			
α-2,6-sialyltransferase	St6galnac1	Mus musculus	2.4.99.3	Y11274 CAA72137.1	Q9QZ39		
ST6GaINAc I				IM_011371 NP_035501.1	Q9JJP5		
α-2,6-sialyltransferase ST6GalNAc III	otogainac3	Mus musculus	n.d.	BC058387 AAH58387.1 AK034804 BAC28836.1	Q9WUV2		
				Y11342 CAA72181.2	Q9JHP5		
				Y11343 CAB95031.1			
α-2,6-sialyltransferase	Stanland	Mus musculus	N * * 00 % 6 * 7	IM_011372 NP_035502	- 0000 IO 15 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
W-2,0-sialyltransierase ST6GalNAc IV	Giogainac4	wus musculus		BC056451 AAH56451.1 AK085730 BAC39523.1	Q8C3J2 Q9JHP2		
				AJ007310 CAA07446.1	Q9R2B6		
La Liver Ad To The				Y15779 CAB43507:1	O88725		

FIGURE 1G

	FIGURE 1G							
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB				
			Y15780 CAB43514.1 Y19055 CAB93946.1 Y19057 CAB93948.1	Q9JHP0 Q9QUP9 Q9R2B5				
%-2,8-sialyltransferase St8sia (GD3 synthase) ST8Sia I	1 Mus musculus	2.4.99.8	1 011373 NP 035503.1 L38677 AAA91869.1 C024821 AAH24821.1	N 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
		A	K046188 BAC32625.1 K052444 BAC34994.1 X84235 CAA59014.1	Q8BL76 Q8BWI0 Q8K1C1				
w-2;8-sialyltransferase ₩St8slat	o Mus musculus ⊭	NM	AJ401102 CAC20706.1 1 011374 NP 035504.1 B059554 BAC01265.1	Q9EPK0 Q8BI43				
(ŠT8Sla VI) α-2,8-sialyltransferase <i>St8sia:</i>		A A	K085105 BAC39367.1 1.145838 NP .665837.1 X83562 CAA58548.1	Q8K4T1				
ST8Sia II	•		X99646 CAA67965.1 X99647 CAA67965.1 X99648 CAA67965.1					
	•		X99649 CAA67965.1 X99650 CAA67965.1 X99651 CAA67965.1					
α-2,8-sialyltransferase <i>St8sia</i> - ST8Sia IV	. Mus musculus	2.4.99.8 B	L 009181 NP_033207.1 ©060112 AAH60112.1 K003690 BAB22941.1	Q64692 Q8BY70				
			K041723 BAC31044.1 J223956 CAA11685.1 X86000 CAA59992.1					
C.2,8-sialyltransferase St8sias	Mus musculus	2.4.99 B	`Y09484°CAA70692.1° °009183 NP∵033209.1. C034855 AAH34855.1	P70126				
ST8Sia V			K078670 BAC37354.1 X98014 CAA66642.1 X98014 CAA66643.1	P70127 P70128 Q8BJW0				
		NM	X98014 CAA66644.1 _013666 NP_038694.1 _153124 NP_694764.1	Q8JZQ3				
0;2,9-själytransferase / <i>St8sla</i> 3 ST8Sla III	Mus musculus	2,4,99,- B	_177416 NP_803135.1 C075645 AAH75645.1 K015874 BAB3001211	Q64689 Q9CUJ6				
GD1 synthase St6gelner (ST6GelNAc V)	c5 Mus musculus	n.d. Bo	X80502.CAA56665.1 009182.NP 033208.1 C055737.AAH55737.1	Q8CAM7				
(OTOGAIIVAC V)		Al Al	B030836 BAA85747.1 B028840 BAA89292.1 K034387 BAC28693.1	Q8CBX1 Q9QYJ1 Q9R0K6				
GM3 synthase (cc-2,3 St3gal5	Mus musculus 🛬	AI NM	K038434 BAC29997.1 K042683 BAC31331.1 _012028 NP_036158.2 F119416 AAF66147.1	O88829				
slalyltransferase) ST3Gal V		Al	- AAP65063.1 B018048 BAA33491.1 B013302 BAA76467.1	Q9CZ65 Q9QWF9				
		Al	K012961 BAB28571.1 Y15003 CAA75235.1 _011375 NP_035505.1					
N-acetylgalactosaminide St6galnad α-2,6-sialyltransferase (ST6GalNAc VI)	6 Mus musculus	2.4.99 BC Al	C036985 AAH36985.1 B035174 BAA87036.1 B035123 BAA95940.1	Q8CDC3 Q8JZW3 Q9JM95				
M138L	Myxoma virus	Al	(030648 BAC27064.1 _016973 NP_058669.1 U46578 AAD00069.1	Q9R0G9				
			F170726 AAE61323.1 _001132 AAE61326.1 _AAF15026.1					
α-2,3-sialyltransferase	Oncorhynchus	n.d. A.	NP 051852.1 J585760 CAE51384.1					

FIGURE 1H							
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB / 3D			
(St3Gal-I)	mykiss			, 35			
α-2,6-sialytransferase (Siat1)	Oncorhynchus mykiśs	n.d.	AJ620649 CAF05848.1				
α-2,8-	Oncorhynchus	n.d.	AB0944 02 BAC77411.1	Q7T2X5			
polysialyltransferase IV (ST8Sia IV)	mykiss						
GalNAc α-2,6-	Oncorhynchus	n.d.	AB097943 BAC77520.1	Q7T2X4			
sialyltransferase (RtST6GalNAc)	mykiss						
α-2,3-sialyltransferase	Oryctolagus	2.4.99	AF121967 AAF28871.1	Q9N257			
ST3Gal IV OJ1217: F02.7	cuniculus	lean exametro					
001217_F02.7	Oryza sativa (japonica cultivar-	n.a.	AP004084 BAD07616.1				
OS INP000421 24 2	group) 🔭 📜						
OSJNBa0043L24.2 or OSJNBb0002J11.9	Oryza sativa (japonica cultivar-	n.d.	AL731626 CAD41185.1 AL662969 CAE04714.1				
CHACCAMAGE AND ACCUMENTATES SEMANTERON DESCRIPTION	group)	r der speciel für der ammende bei		TATTE SUB-MINISTER PROPERTY AND STREET			
P0683f02.18 or P0489B03.16	Oryża₁sativa	nd.v	AP003289 BAB63715.1 AP003794 BAB90552.1				
	(group)						
α-2,6-slalyltransferase ST6GalNAc V (Siat7E)	Oryzias latipes	n.d.	AJ646876 CAG26705.1				
(fragment)							
α-2,3-slalyltransferase ST3Gal I (Siat4)	Pan troglodytes	n.d	AJ744803,CAG32839:1.				
α-2,3-sialyltransferase	Pan troglodytes	n.d.	AJ7448O4 CAG32840.1				
ST3Gal II (Siat5)	a mendelen i en	Rēts karakā līd		SANGARAN KAMPANTANTAN SANGARA			
ST3Galill (Slat6)	Ran troglodytės	n.d.	AJ6268 19 CAF25177 1				
α-2,3-slalyltransferase	Pan troglodytes	n.d.	AJ626824 CAF25182.1	and a sound the company of the compa			
ST3Gal IV (Siat4c) α-2,3-sialytransferase	Pan troglodytes "	rnid 🖖	AJ744808 CAG32844.1				
ST3Gal VI (Slat10)							
	Pan troglodytes	n.d.	AJ748740 CAG38615.1				
0.2;6-sialyltränsferase	Pan troglodytes	.n.d. 🐬	AJ7487.41 CAG38616.1				
(Sia7B) α-2,6-sialyltransferase	Pan troglodytes	n.d.	AJ634454 CAG25676.1				
ST6GalNAc III (Siat7C)				TOTAL CONTRACT TOTAL CONTRACT			
α-2,6-sialyltransferase ST6GalNAc IV (Siat7D)	Pan troglodytes	n.a.	AJ646870 CAG26699.1				
(fragment)							
α-2,6-sialyltransferase ST6GalNAc V (Siat7E)	Pan troglodytes	n.d.	AJ6468 7 5 CAG26704.1				
α-2,6-sialyltransferase	Pan troglodytes	n.d.	AJ646882.CAG26711.1				
ST6GalNAc VI (Siat7F) (fragment)		action of					
α-2,8-sialyltransferase 8A	Pan troglodytes	2.4.99.8	AJ697658 CAG26896.1				
(Slat8A) α-2,8-sialyltransferase 8B	Pan troglodytes	n.d.	AJ697659 CAG26897.1				
(Siat8B)		MILU					
α-2,8-sialyltransferase 8C (Siat8C)	Pan troglodytes	n.d.	AJ697660 CAG26898.1				
α-2,8-sialyltransferase	Pan troglodytes	n.d.	AJ697661 CAG26899.1				
8D (Slat8D) α-2,8-sialyltransferase 8E	Pan troglodytes	n.d.	AJ697662 CAG26900.1				
(Siat8E)							
C-2,8-slalyltransferase 8F (Siat8F)	Pan troglodytes	n.d.	AJ697663 CAG26901.1				
β-galactosamide α-2,6-	Pan troglodytes 2	2.4.99.1	AJ627624 CAF29492.1	Treated Street			
sialyltransferase I (ST6Gal I; Siat1)							
B galactosamide c-2.6-	Pan troglodytes	n.d.	AJ627625 CAF29493.1				
sialyltransferase II							
(ST6Gal II) GM3 synthase ST3Gal V	Pan troglodytes	n.d.	AJ744807 CAG32843.1				
, 0,00ai v	. an a ogiouyles .	n.u.	70177001 OAG32043.1				

	FIGURE	11	•	
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB / 3D
(Siat9) S138L	Rabbit fibroma	n.d.	NC_001266 NP_052025	
α-2,3-sialyltransferase	virus Kasza Rattus norvegicus		M97754 AAA42146.1	Q02734
ST3Gal III	_	1	NM_031697 NP_113885.1	
α-2,3-sialyltransferase ST3Gal IV (Siat4c)	Rattus norvegicus	nd:	AJ626825 CAF25183.1	and the same
α-2,3-sialyltransferase	Rattus norvegicus	n.d.	AJ626743 CAF25053.1	Technology of the latest process of the late
ST3Gal VI α-2,6-sialyltransferase	Rattus norvegicus	2.4.99	X76988 CAA54293.1	Q11205
ST3Gal II α-2,6-sialyltransferase			NM: 031695 NP: 113883.1 M18769 AAA41196.1	P13721
ST6Gal I	•		M83143 AAB07233.1	
c-2,6-sialyltransferase ST6GalNAc I (Siat7A)	Rattus norvegicus	n.d. 🤻	AJ634458 CAG25684.1	
α-2,6-sialyltransferase ST6GalNAc II (Siat7B)	Rattus norvegicus	n.d.	AJ634457 CAG25679.1	and the second section of the second
α 2,6-sialyltransferase	Rattus norvegicus	2/4,99	L29554 AAC42086:1	Q64686
ST6Gā[NĀc III.			BC072501 AAH72501.1 NM 019123 NP5061996.1	
α-2,6-sialyltransferase	Rattus norvegicus	n.d.	AJ646871 CAG26700.1	Prince of Call May 18 200 Contain
ST6GalNAc IV (Siat7D) (fragment)		,	•	
α-2,6-sialyltransferase ST6GalNAc V (Siat7E)	Rattus norvegicus	**n. d .	AJ646872.CAG26701.1	
α-2,6-sialyltransferase	Rattus norvegicus	n.d.	AJ646881 CAG26710.1	
ST6GalNAc VI (Siat7F) (fragment)				
α-2,8-sialyitransferase			√ U53883 AAG27541.1.	
(GD3 sýnthase) ST8Sia α-2,8-sialyltransferase	Rattus norvegicus	n.d.	D45255 BAA08213 (CA) AJ699422 CAG27884.1	P97713
(SIAT8E) x-2,8-sialyltransferase	Datine nongalone		, AJ699423 CAG27885.1	
(SIAT8F)				
α-2,8-sialyltransferase ST8Sia II	Rattus norvegicus		L13445 AAA42147.1 NM_057156 NP_476497.1	Q07977 Q64688
α-2,8-sialyltransferase	Rattus norvegicus	2.4.99.	U55938 AAB50061.1 _€	P97877
ST8Sia III α-2,8-sialyltransferase	Rattus norvegiçus		M 013029 NP 037161.1 U90215 AAB49989.1	O08563
ST8Sia IV β ₋ galactosamide α-2 ,6-	Rattus norvėgicus	30 n.d.s 2 4	"AJ627626 CAF29494 1	
sialyltransferase II				
(ST6Gal II) GM3 synthase ST3Gal V	Rattus norvegicus	n.d.	AB018049 BAA33492.1	O88830
	Rattus norvegicus	<u> </u>	IM_031337 NP_112627.1	iniae - noo enacemin minera
- 16 20 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		n.d.	AJ748840 CAG44449.1	
α-2,3-sialyltransferase (St3Gal-II)	Silurana tropicalis	n.d.	AJ585763 CAE51387.1	
α-2,6-sialyltransferase	Sllurana tropicalis	n.d.	AJ620650 CAF05849.1	
(Siat7b) α-2,6-sialyltransferase	Strongylocentrotus	n.d.	AJ699425 CAG27887.1	
(St6galnac) α-2,3-sialyltransferase	purpuratus Sus scrofa	n.d.	AJ585765 CAE51389.1	ROBERT CONTROVER THE CO
(ST3GAL-III)			AJJOJ/OJ CALJIJGA.	
α-2,3-sialyltransferase (ST3GAL-IV)	Sus scrofa	n.d.	AJ584674 CAE48299.1	
α-2,3-slalyltransferase	Sus scrofa	2.4.99.4	M97753 AAA31125.1	Q02745
ST3Gal I α-2,6-sialyltransferase	Sus scrofa	2.4.99.1	AF136746 AAD33059.1	Q9XSG8
(fragment) ST6Gal I β-galactosamide α-2,6-	Sus scrofa	n.d.	AJ620948 CAF06585.2	
sialyitransferase			, word of the control	
(ST6GalNAc-V) sialyltransferase	sus scrofa	n.d.	AF041031 AAC15633.1	O62717
(fragment) ST6Gal I	-	11.4.	711-2410017-010100011	302111

FIGURE 1J

FIGURE 1J						
Protein	Organism	EC#	GenBank / GenPept SwissProt / 3D			
ST6GALNAC-V	Sus scrofa	n.d.	AJ620948 CAF06585.1			
α-2,3-sialyltransferase (Siat5-r)	Takifugu rubripes	n.d.	AJ744805 CAG32841.1			
α-2,3-sialyltransferase	Takifugu rubripes	n.d.	AJ626816 CAF25174:1			
ST3Gal I (Siat4)	addinaga rapripes		AU020010 OAF201/4.1			
α-2,3-sialyltransferase	Takifugu rubripes	n.d.	AJ626817 CAF25175.1			
ST3Gal II (Siat5) (fragment)						
α-2;3-sialyltransferase	Takifugu rubripes	n.d.	AJ626818 CAF25176.1			
ST3Gal III (Siat6)	W in the factor of the second					
α-2,6-sialyltransferase	Takifugu rubripes	n.d.	AJ744800 CAG32836.1			
ST6Gal I (Siat1) α-2,6-slalyltransferase	Takifugu rubripes	n.d.	AJ634460 CAG25681.1			
ST6GalNAc'll (Siat7B)		3 3 3				
α-2,6-sialyltransferase	Takifugu rubripes	n.d.	AJ634461 CAG25682.1			
ST6GalNAc II B (Siat7B-related)						
α-2,6-sialyltransferase	Takifugu rübripes	n.d	/AJ634456 CAG25678:1			
ST6GalNAc III (Siat7C)		I A LANG				
(fragment): α-2,6-sialyltransferase	Takifugu ashdaa	24003	V47466 CAR44230 4			
ST6GalNAc IV (siat7D)	Takifugu rubripes	2.4.99.3	Y17466 CAB44338.1 Q9W6U6 AJ646869 CAG26698.1			
(fragment)	White Telephone and the consequence of the con-	the transport of the same of t				
α-2,6-sialyltransferase	Takifugu rubripes 📑	n.d. [AJ646873 CAG26702.1			
ST6GalNAc V (Siat7E) (fragment)	""在"大"的" "					
α-2,6-sialyltransferase	Takifugu rubripes	n.d.	AJ646880 CAG26709.1			
ST6GalNAc VI (Siat7F)						
(fragment) α-2,8-sialyltransferase	Takifugu rubripes	Share	AJ715534 CAG29373.1			
ST8Sia I (Siat 8A)						
(fragment)						
α-2,8-sialyltransferase ST8Sia II (Siat 8B)	Takifugu rubripes	n.d.	AJ715538 CAG29377.1			
(fragment)						
α-2,8-sialyltransferase	Takifugu rubripes	ín.d. / 🖟	AJ71554:(ICAG29380:1			
ST8Sia III (Siat 8C) (fragment)						
α-2,8-sialyltransferase	Takifugu rubripes	n.d.	AJ715542 CAG29381.1			
ST8Sia IIIr (Siat 8Cr)		istratikas antaeseara				
α-2.8-sialyltransferase ST8Sia V (Siat 8E)	Täkifuguirubripes	n.d.	AJ715547 CAG29386.1			
(fragment)						
α-2,8-sialyltransferase	Takifugu rubripes	n.d.	AJ715549 CAG29388.1			
ST8Sia VI (Siat 8F) (fragment)						
α-2,8-sialyttransferase	Takifugu rubripes	n.d.	AJ715550.CAG29389.1			
ST8Sia Vir (Siat 8Fr)						
α-2,3-sialyltransferase (Siat5-r)	Tetraodon nigroviridis	n.d.	AJ744806 CAG32842.1			
α-2,3-sialyltransferase	Tetraodon	n.d.	AJ744802 CAG32838.1			
ST3Gal I (Slat4)	nigroviridis					
α-2,3-sialyltransferase ST3Gal III (Siat6)	Tetraodon niaroviridis	n.d.	AJ626822 CAF25180.1			
α-2,6-sialyltransferase	Tetraodon	n.d.	AJ634462 CAG25683.1			
ST6GalNAc II (Siat7B)	nigroviridis					
α-2,6-sialyltransferase ST6GalNAc V (Siat7E)	Tetraodon nigroviridis	n.d.	AJ646879 CAG26708.1			
(fragment)	riigi oviilula					
	Tetraodon	n.d.	AJ715536 CAG29375.1			
ST8Sia I (Siat 8A) (fragment)	nlgroviridis					
α-2,8-sialyltransferase	Tetraodon	n.d.	AJ715537 CAG29376.1			
ST8Sia II (Siat 8B)	nigroviridis					
(fragment) α-2,8-sialyltransferase	Tetraodon	T. Allerson	AJ715539 CAG29378.1			
Ex-Phologisting in the Property of Property of Property of Page 197	Leadoudit LANGER	74 FOV 27 3E	MI 110009 CAG29316.1			

FIGURE 1K

FIGURE 1K							
Protein	Organism	EC#	GenBar	ık / GenPept	SwissProt PDE		
ST8Sia III (Slat 8C)/ (fragment)	n igroviridis						
α-2,8-sialyltransferase	Tetraodon	n.d.	AJ71554	0 CAG29379	1.1		
ST8Sia IIIr (Siat 8Cr) (fragment)	nigroviridis	•		•			
α-2,8-sialyltransferase	Tetraodon	n.d	AJ71554	8 CAG29387	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
ST8Sia V (Siat 8E) ((fragment)	rigroviridis 🔻						
α-2,3-sialyltransferase (St3Gal-II)	Xenopus laevis	n.d.	AJ58576	2 CAE51386.	1		
x:2,3-sialyltransferase	Xenopus laevis 💍 🚡	n.d.	AJ58576	6 CAE51390.	160774		
(St3Gal-VI) α-2,3-sialyltransferase	Xenopus laevis	n.d.	A.158576	4 CAE51388.	1		
St3Gal-III (Siat6)			AJ62682	3 CAF25181.	1		
polysialyltransferase	Xenopus laevis 🤻 🖂 2	4.99.		8 BAA32617.	1 093234		
α-2,8-sialyltransferase ST8Siα-I (Siat8A;GD3	Xenopus laevis	n.d.	AY272056	6 AAQ16162. 7 AAQ16163.			
synthase)	SPECTOS SUCCESSION SERVICES SERVICES SERVICES		AJ704562	2 CAG28695.	.1		
Unknown (protein for MGC:81265)	Xenopus laevis + ↓ ≱,	n.d.r	BC068760	CAAH68760			
	Xenopus tropicalis	n.d.	AJ626744	4 CAF25054.	1		
α-2 ₁ 3-sialyltransferase	Xenopus tropicalis 📝	n.d.	AJ622908	CAF22058.	1		
(Siat4c) α-2,6-sialyltransferase	Xenopus tropicalis	n.d.		CAG26707.	1		
ST6GalNAc V (Siat7E) (fragment)			7.00-7007		•		
α-2,8-slalyltransferase	Xenopus tropicalis 🦸	n.d:	AJ715544	CAG29383.	1672		
ST8Sia III (Siat 8C) (fragment):		1.11					
β-galactosamide α-2,6-	Xenopus tropicalis	n.d.	AJ627628	CAF29496.	1		
sialyltransferase II (ST6Gal II)							
sialytransferase St8Sial	Xenopus tropicalis	n.d.	AY652775	AAT67042	ar men		
poly-α-2,8-sialosyl sialyltransferase	Escherichia coli K1	2	4854 M	76370 AAA2	421351 Q57269 S		
(NeuS): polysialyltransferase	Escherichia coli K92			60598 CAA4	<u>305</u> 3;1 4215 .1 Q47404		
· ·							
α2,8 polysialytransférase SlaD	Neisseria meningitid B1940	1. The state of the			0478 1 Q51281 4985.1 Q51145		
SynE	Neisseria meningitidi FAM18	is n			3842.1 O06435		
polysiályltransferase (SiáD)(fragment)	Neisserla meningitid	s kara an	.d. AY2	34192 .AAO 8	5290.1		
SiaD (fragment)	M1019 Neisseria meningitidi	s n	.d. AY2	81046 AAP3	4769.1		
SlaD (fragment)	M209 Neisseria meningitidi		de AV2	81044 AAP3	A767 ATM TONESTS		
	M3045		达蒙克特				
polysialyltransferase (SiaD)(fragment)	Neisseria meningitidi M3315		.d. AY2	34191 AAO 8	5289.1		
SiaD (fragment)	Neisseria meningitidi M3515	s , n	.d::://AY2	81047 AAP3	4770.1		
polysialyltransferase (SlaD)(fragment)	Neisseria meningitidi	s n	.d. AY2	34190 AAO 8	5288.1		
SiaD (fragment)	M4211 Neisseria meningitidi	ระวารก	d AY2	81048 AAP3	4771.1		
polyslalyltransferase (SiaD)(fragment)	M4642	Process					
	Neisseria meningitidi M5177			34193 AAO8			
SlaD	Neisseria meningitidi M5178	s n	.d. AY2	81043 AAP3	4766.1		
SiaD (fragment)	Neisseria meningitidi M980	s n	.d. AY2	81045 AAP3	4768.1		
NMB0067	Neisseria meningitidi	s in	d NC 0	03112 NP <u>- 2</u> 7	3131 1223		
E DISTRICTION OF SERVICE	MC58		er egg.	iden Ti			

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	FIGURE 1L					
Protein	Organism	EC#	GenBank / GenPept Sw	issProt PDB /3D		
Lst	Aeromonas	n.d.	AF126256 AAS66624.1			
ORF2	punctata Sch3 Haemophilus influenzae A2	n.d.	M94855 AAA24979.1			
Hi1699	Haemophilus Influenzae Rd	n.dz	U32842 AAC23345:1 Q4 NG 000907 NP 439841,1	8211.		
α-2,3-sialyltransferase	Neisseria gonorrhoeae	2.4.99.4		2074		
α-2,3-sialyltransferase	F62 Neisseria, 급기학	2.4.99.4				
	meningitidis 126E, NRCC 4010					
α-2,3-sialyltransferase		2.4.99.4	U60661 AAC44543.1			
Es la constitución de la constit	406Y, NRCC 4030		•			
cc.2,3-sialyltransferase (NMB0922)	meninaitidis 😘	2.4.99.4	U60660 AAC44541.1 P7: AE002443 AAF41330.1	2097		
NMA1118	MC58 Neisseria meningitidis	n.d.		IUV5		
PM0508	Z2491 Pasteurella		NC_003116 NP_283887.1 \AE006086 \AAK02592 .1\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	NOZ PZ		
	multocida PM70		NC_002663 NP:_245445:1			
WaaH	Salmonella enterica	n.d.	AF519787 AAM82550.1 Q8H	(S93		
WaaH	SARB25 Salmonella enterica SARB3	n.d.	AF519788 AAM82551;1 O8k	(S92)		
WaaH	Salmonella enterica	n.d.	AF519789 AAM82552.1			
Waali	SARB39 Salmonella 🔉 🖔	n.d.	AF519790/AAM82553i:1			
WaaH	enterica SARB53					
vvdan	Salmonella enterica SARB57	n.d.	AF519791 AAM82554.1 Q8k	(S91		
WaaH	Salmonella enterica	n.d.	AF519793 AAM82556:1 Q8k	S89 5		
WaaH	SARB71 Salmonella	n.d.	AF519792 AAM82555.1 Q8K	S90		
WaaH	enterica SARB8 Salmonella	n.d.	AF519779 AAM88840.1 Q8K	S99 ; [/ i		
WaaH (fragment)	enterica SARC10V Salmonella	n.d.	AF519781 AAM88842.1			
B. W	enterica SARC12					
WaaH (fragment)	Salmonella 🚜	n.d.	AF519782 AAM88843 1 Q8K	S98		
WaaH (fragment)	SARC13I Salmonella enterica	n.d.	AF519783 AAM88844.1 Q8K	S97		
WaaH	SARC14I	n.d.	AF519784 AAM88845 .1 Q8K	S96		
Wood	enterica SARC15II					
WaaH	Salmonella enterica SARC1611	n.d.	AF519785 AAM88846.1 Q8K	S95		
•	SARC16II		•			

CI.	IRE	48/

	FIGL	JRE 1M		
Protein	Organis	m EC#	GenBank / GenPep	t SwissProt PDB / 3D
WaaH (fragment)	Salmonella	n.d.	AF519772 AAM88834.	1 Q8KSA4
	enterica SARC3I			
WaaH (fragment)	Salmonella enterica	n.d.	AF519773 AAM88835.	1 Q8KSA3
WaaH	SARC4I Salmonella	n.d.	AF519774 AAM88836.	
	enterica SARG5ila		AF3191/4 AAW00030.	
WaaH	Salmonella	n.d.	AF519775 AAM88837.	1 Q8KSA2
表でしない。 までは、これではない。 これでは、これでは、 にれでは、 にはなは、 にはなはなはなはなななななななななななななななななななななななななななななな	enterica SARC6IIa			•
WaaH	Salmonella enterica	i n.d.	AF519777 AAM88838.	1 Q8KSA1 💢 🥙
WaaH	SARC8 Salmonella	n.d.	AF519778 AAM88839.	1 Q8KSA0
	enterica SARC9V	11.0.	71 3 13 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1	· QONSAU
UDP-glucose a 1;2-1; glucosyltransferase (WaaH3)	Salmonella enterica sub	24.13	AF511116 AAM48166.	
	i arizonae SA			
Manager and the second				
bifunctional α-2,3/-2,8-	Campylobacter jejuni ATCC 43449	n.d	AF401529 AAL06004 1	Q93CZ5
Cst	Campylobacter jejuni 81-176	n.d.	AF305571 AAL09368.1	o o dan Maria da da Kasar indrastanda in Maria Saleti.
α-2:3-sialylfransferase (Cst-	Campylobacter jéjuni ATCC 43429	. 2.4.99	AŸ044156 AAK73183.1	Take
α-2,3-sialyltransferase (Cst- III)	Campylobacter jejuni ATCC 43430	2.4.99	AF400047 AAK85419.1	
q-2,34sialyttransferase (Cst-	Campylobacter jejuni	2.4.994	AF215659 AAG43979 .1	Q9F0M9
α-2,3/8-sialyltransferase	ATCC 43432 Campylobacter jejuni	n.d.	AF400048 AAK91725.1	Q93MQ0
(CstII) [α-2;3-sialyltransferase cst-II*	ATCC 43438 Campylobacter jejuni	-2.4.99	AF167344 AAF34137:1	
∞-2,3-sialyltransferase (Cst-	ATCC 43446 Campylobacter jejuni	2.4.99	AF401528 AAL05990.1	Q93D05
II) α 2,3-/α 2,8-sialyltransferase.	ATCC 43456		AY044868 AAK96001 .1 3	
(Cstil) α-2,3/8-sialyltransferase	ATCC 43460			Q938X68
(Cst-II)	Campylobacter jejuni ATCC 700297		AF216647 AAL36462.1	
ORF	Campylobacter jejuni GB11		AY422197 AAR82875.1	
α-2,3-sialyltransferase cstIII	Campylobacter jejuni MSC57360		AF195055 AAG29922.1	A CONTRACTOR OF THE PROPERTY O
α-2,3-sialyltransferase cstIII Cj1140	Campylobacter jejuni NCTC 11168		AL139077 CAB73395.1 C_002163 NP_282288.1	Q9PNF4
α-2,3/α-2,8-sialyltransferase	Campylobacter jejuni O:10	n.d.	- AAO96669.1 AX934427 CAF04167.1	racia classicada basi. Nivelli 24e Princi Alemanii.
α-2,3/α-2,8-sialyltransferase	Campylobacter jejuni O:19		X934431 CAF04169.1	100 miles
α-2,3/α-2,8-sialyltransferase	Campylobacter jejuni O:36	n.d.	X934436 CAF04171.1	
α-2,3/α-2,8-slalyltransferase	Campylobacter jejuni	// n.d.	X934434 CAF04170.1	THE STATE OF THE S
α-2,3/α-2,8-sialyltransferase	O:4 Campylobacter jejuni	n.d.	-AAO96670.1	
II (CstII)	O:41		- AAT17967.1 X934429 CAF04168.1	•
	Campylobacter Jejuni - OH4384			Q9RGF1
bifunctional x-2,3/-2,8- slalyltransferase (Cst-II)	Campylobacter jejuni OH4384		AF130984 AAF31771.1 XX934425 CAF04166.1	1R07 C
		•	V.007720 OAF 04 100, 1	1RO8 A

FIGURE 1N

FIGURE IN					
Protein	Organism	EC#	GenBank / GenPept	SwissProt PDB / 3D	
HI0352 (fragment)	Haemophilus influenzae. Rd	X5	2720 AAC22013.1 F 7315 CAA40567.1 0907 NP_438516.1	24324	
PM1174	Pasteurella multocida PM70	n.d. AE00		9CLP3	
Sequence 10 from patent US 6503744		n.d.	AAO96672.1		
Sequence 10 from patent US 6699705 Sequence 12 from patent US	Unknown.	n.d.	- AAT17969.1		
6699705 Sequence 2 from patent US	Unknown.	n.d.	- AAT23232.1		
6709834 Sequence 3 from patent US	Unknown 👍 🖫 🕾	n.d.	AAO96668 1.		
6503744 Sequence 3 from patent US 6699705	Unknown.	n.d.	- AAT17965.1		
Sequence 34 from patent US 6503744		rrid.	* - AAO96684.1		
Sequence 35 from patent US 6503744 (fragment) Sequence 48 from patent US	Unknown.	n.d.	- AAO96685.1 - AAS36262.1		
6699705 Sequence 5 from patent US	Unknown.	n.d.	-AAT17988.1		
6699705 Sequence 9 from patent US 7/4	.Unknown ***	n.d.V			
6503744	144.7 1 30 100 114				

a. AG¹—O AANHP, base; b. pyruvate, AS-Aldolase, buffer; c. synthetase, nucelotide phosphate; d. deprotecting reagent; e. activated PEG

NP = nucleotide phosphate; P = protecting group; PEG = poly(ethylene glycol) or methoxy-poly(ethylene glycol)